

Quantum Many-Body Systems in One Dimension

Zachary M. C. Ha

Quantum Manybody Systems In One Dimension

Pavel Exner



Quantum Manybody Systems In One Dimension:

Quantum Many-body Systems In One Dimension Zachary N C Ha, 1996-09-13 The main theme of the book is the intimate connection between the two families of exactly solvable models the inverse square exchange ISE and the nearest neighbor exchange NNE models The latter are better known as the Bethe Ansatz solvable models and include the Heisenberg spin chain t - J models and Hubbard models The former the Calogero Sutherland family of models are simple to solve and contain essentially the same physics as the NNE family The author introduces and discusses current topics such as the Luttinger liquid concept fractional statistics and spin charge separation in the context of the explicit models **Beautiful Models: 70 Years Of Exactly Solved Quantum Many-body Problems** Bill Sutherland, 2004-06-21 This invaluable book provides a broad introduction to the fascinating and beautiful subject of many body quantum systems that can be solved exactly The subject began with Bethe's famous solution of the one dimensional Heisenberg magnet more than 70 years ago soon after the invention of quantum mechanics Since then the diversity and scope of such systems have been steadily growing Beautiful Models is self contained and unified in presentation It may be used as an advanced textbook by graduate students and even ambitious undergraduates in physics It is also suitable for the non experts in physics who wish to have an overview of some of the classic and fundamental models in the subject The explanations in the book are detailed enough to capture the interest of the curious reader and complete enough to provide the necessary background material needed to go further into the subject and explore the research literature **Probing Correlated Quantum Many-Body Systems at the Single-Particle Level** Manuel Endres, 2014-04-26 How much knowledge can we gain about a physical system and to what degree can we control it In quantum optical systems such as ion traps or neutral atoms in cavities single particles and their correlations can now be probed in a way that is fundamentally limited only by the laws of quantum mechanics In contrast quantum many body systems pose entirely new challenges due to the enormous number of microscopic parameters and their small length and short time scales This thesis describes a new approach to probing quantum many body systems at the level of individual particles Using high resolution single particle resolved imaging and manipulation of strongly correlated atoms single atoms can be detected and manipulated due to the large length and time scales and the precise control of internal degrees of freedom Such techniques lay stepping stones for the experimental exploration of new quantum many body phenomena and applications thereof such as quantum simulation and quantum information through the design of systems at the microscopic scale and the measurement of previously inaccessible observables *Non-equilibrium Dynamics of One-Dimensional Bose Gases* Tim Langen, 2015-05-22 This work presents a series of experiments with ultracold one dimensional Bose gases which establish said gases as an ideal model system for exploring a wide range of non equilibrium phenomena With the help of newly developed tools like full distributions functions and phase correlation functions the book reveals the emergence of thermal like transient states the light cone like emergence of thermal correlations and the

observation of generalized thermodynamic ensembles This points to a natural emergence of classical statistical properties from the microscopic unitary quantum evolution and lays the groundwork for a universal framework of non equilibrium physics The thesis investigates a central question that is highly contested in quantum physics how and to which extent does an isolated quantum many body system relax This question arises in many diverse areas of physics and many of the open problems appear at vastly different energy time and length scales ranging from high energy physics and cosmology to condensed matter and quantum information A key challenge in attempting to answer this question is the scarcity of quantum many body systems that are both well isolated from the environment and accessible for experimental study *Exactly Solvable Models In Many-body Theory* Norman H March, Giuseppe G N Angilella, 2016-05-27 The book reviews several theoretical mostly exactly solvable models for selected systems in condensed states of matter including the solid liquid and disordered states and for systems of few or many bodies both with boson fermion or anyon statistics Some attention is devoted to models for quantum liquids including superconductors and superfluids Open problems in relativistic fields and quantum gravity are also briefly reviewed The book ranges almost comprehensively but concisely across several fields of theoretical physics of matter at various degrees of correlation and at different energy scales with relevance to molecular solid state and liquid state physics as well as to phase transitions particularly for quantum liquids Mostly exactly solvable models are presented with attention also to their numerical approximation and of course to their relevance for experiments

Nonequilibrium Statistical Mechanics in One Dimension Vladimir Privman, 1997-02-20 Self contained and up to date guide to one dimensional reactions dynamics diffusion and adsorption **Quantum Many-body Problems and Representation Theory** Ivan Cherednik, Peter Forrester, Denis Uglov, 1998 *Many-body Problem, The: An Encyclopedia Of Exactly Solved Models In One Dimension (3rd Printing With Revisions And Corrections)* Daniel C Mattis, 1993-03-15 This book differs from its predecessor Lieb Mattis Mathematical Physics in One Dimension in a number of important ways Classic discoveries which once had to be omitted owing to lack of space such as the seminal paper by Fermi Pasta and Ulam on lack of ergodicity of the linear chain or Bethe s original paper on the Bethe ansatz can now be incorporated Many applications which did not even exist in 1966 some of which were originally spawned by the publication of Lieb Mattis are newly included Among these this new book contains critical surveys of a number of important developments the exact solution of the Hubbard model the concept of spinons the Haldane gap in magnetic spin one chains bosonization and fermionization solitons and the approach to thermodynamic equilibrium quantum statistical mechanics localization of normal modes and eigenstates in disordered chains and a number of other contemporary concerns *Numerical Simulations of Quantum Many-body Systems with Applications to Superfluid-insulator and Metal-insulator Transitions* Parhat Niyaz, 1993 **Finite Size Effects in Correlated Electron Models** Andrei A. Zvyagin, 2005 The book presents exact results for one dimensional models including quantum spin models of strongly correlated electrons in a comprehensive and concise manner It incorporates

important results related to magnetic and hybridization impurities in electron hosts and contains exact original results for disordered ensembles of impurities in interacting systems These models describe a number of real low dimensional electron systems that are widely used in nanophysics and microelectronics An important method of modern theoretical and mathematical physics the Bethe's Ansatz BA is introduced to readers This book presents different forms of the BA for periodic and open quantum chains Other forms dealt with are the coordinate BA thermodynamic BA nested BA algebraic BA and thermal BA The book also contains a compact description of other theoretical methods such as scaling conformal field theory Abelian and non Abelian bosonizations The book is suitable for use as a textbook by graduate students in non perturbative methods of low dimensional quantum many body theory It will also be a useful source of reference for qualified physicists as well as non experts in low dimensional physics as it explores material necessary for further studies in the fields of exactly solvable quantum models and low dimensional correlated electron systems

Mathematical Results in Quantum Physics Pavel Exner, 2011 The volume collects papers from talks given at QMath11 Mathematical Results in Quantum Physics which was held in Hradec Kralove September 2010 These papers bring new and interesting results in quantum mechanics and information quantum field theory random systems quantum chaos as well as in the physics of social systems Part of the contribution is dedicated to Ari Laptev on the occasion of his 60th birthday in recognition of his mathematical results and his service to the community The QMath conference series has played an important role in mathematical physics for more than two decades typically attracting many of the best results achieved in the last three year period and the meeting in Hradec Kralove was no exception

Nuclear Science Abstracts, 1976

Non-Equilibrium Dynamics Beyond Dephasing Bernhard Rauer, 2019-05-04 Cold atomic gases trapped and manipulated on atom chips allow the realization of seminal one dimensional 1d quantum many body problems in an isolated and well controlled environment In this context this thesis presents an extensive experimental study of non equilibrium dynamics in 1d Bose gases with a focus on processes that go beyond simple dephasing dynamics It reports on the observation of recurrences of coherence in the post quench dynamics of a pair of 1d Bose gases and presents a detailed study of their decay The latter represents the first observation of phonon phonon scattering in these systems Furthermore the thesis investigates a novel cooling mechanism occurring in Bose gases subjected to a uniform loss of particles Together the results presented show a wide range of non equilibrium phenomena occurring in 1d Bose gases and establish them as an ideal testbed for many body physics beyond equilibrium

Exactly Solvable Models Of Strongly Correlated Electrons Fabian H L Essler, Vladimir Korepin, 1994-05-24 Systems of strongly correlated electrons are at the heart of recent developments in condensed matter theory They have applications to phenomena like high Tc superconductivity and the fractional quantum hall effect Analytical solutions to such models though mainly limited to one spatial dimension provide a complete and unambiguous picture of the dynamics involved This volume is devoted to such solutions obtained using the Bethe Ansatz and concentrates on the most important of such models the

Hubbard model The reprints are complemented by reviews at the start of each chapter and an extensive bibliography

New Trends in Integrability and Partial Solvability A.B. Shabat,A. González-López,M. Mañas,L. Martínez Alonso,M.A. Rodríguez,2012-12-06 Proceedings of the NATO Advanced Research Workshop held in Cadiz Spain from 12 to 16 June 2002

Chaotic, Fractional, and Complex Dynamics: New Insights and Perspectives Mark Edelman,Elbert E. N. Macau,Miguel A. F. Sanjuan,2017-11-17 The book presents nonlinear chaotic and fractional dynamics complex systems and networks together with cutting edge research on related topics The fifteen chapters written by leading scientists working in the areas of nonlinear chaotic and fractional dynamics as well as complex systems and networks offer an extensive overview of cutting edge research on a range of topics including fundamental and applied research These include but are not limited to aspects of synchronization in complex dynamical systems universality features in systems with specific fractional dynamics and chaotic scattering As such the book provides an excellent and timely snapshot of the current state of research blending the insights and experiences of many prominent researchers

Mathematical Results In Quantum Physics - Proceedings Of The Qmath11 (With Dvd-rom) Pavel Exner,2011-05-26 The volume collects papers from talks given at QMath11 Mathematical Results in Quantum Physics which was held in Hradec Kr lov September 2010 These papers bring new and interesting results in quantum mechanics and information quantum field theory random systems quantum chaos as well as in the physics of social systems Part of the contribution is dedicated to Ari Laptev on the occasion of his 60th birthday in recognition of his mathematical results and his service to the community The QMath conference series has played an important role in mathematical physics for more than two decades typically attracting many of the best results achieved in the last three year period and the meeting in Hradec Kr lov was no exception

Applications of Random Matrices in Physics Édouard Brezin,2006-03-03 Proceedings of the NATO Advanced Study Institute on Applications of Random Matrices in Physics Les Houches France 6 25 June 2004

Festschrift In Honor Of The C N Yang Centenary, A: Scientific Papers Fong-ching Chen,Mo-lin Ge,Bin-lin Gu,Kok Khoo Phua,Kenneth Young,Bang-fen Zhu,2022-08-03 C N Yang is a towering figure of science who has significantly extended human understanding of nature headed one of the foremost research institutes in physics for three decades and made great contributions to the advances of Chinese physics This Festschrift in honor of Professor Yang on his centenary birthday consists of two volumes Volume A consists of general essays concerning Professor Yang the person as well as the authors impressions and reminiscences of him which are mainly but not exclusively in Chinese This volume that is Volume B consists of over thirty scientific papers in English on subjects broadly related to his work and contributed by two different groups Professor Yang s colleagues friends and former students and graduates from the Tsinghua University Physics Department or Institute for Advanced Study who have come under the influence of Professor Yang and are now established in their own careers review papers presented at a Symposium held in his honor in 2021 are also included It is hoped that this Festschrift can serve as a fit tribute to Professor Yang s lifelong achievements and also

increase public awareness of the many different sides of this giant his life his personality his work his influence as well as what he strives for The Bethe Wavefunction Michel Gaudin, 2014-03-06 Translation of an influential book on exactly solvable models of many body physics for graduate students and researchers in physics

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